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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/252,691	02/18/1999 .	KEITH G WEINSTOCK	107196.135	4791
75	590 05/13/2003			
TERESA STANEK REA BURNS, DOANE, SWECKER AND MATHIS, L.L.P P.O. BOX 1404 ALEXANDRIA, VA 22313-1404			EXAMINER	
			PORTNER, VIRGINIA ALLEN	
			ART UNIT	PAPER NUMBER
			1645	

DATE MAILED: 05/13/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Interview	Summary
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Application No. 09/252,691

Applicant(s)

Examiner

Art Unit

Portner

1645

Weinstock



All participants (applicant, applicant's representative, PT(O personnel):			
(1) Portner (PtO Personnel)	(3) Mr. Robert Saedafora (Registration Number 46, 197)			
(2) Mr. George Elliott (PTO Personnel)	(4) <u>Ms. Nina Pearlmutter (Applicant's Representative)</u>			
Date of Interview Apr 16, 2003	_			
Type: a) ☑ Telephonic b) ☐ Video Conference c) ☐ Personal [copy is given to 1) ☐ applicant	: 2)□ applicant's representative	9]		
Exhibit shown or demonstration conducted: d) Yes	e) 🛛 No. If yes, brief description	on:		
Claim(s) discussed: all of record				
Identification of prior art discussed: all of record				
Agreement with respect to the claims f) was reache	d. g)⊠ was not reached. h)□	N/A.		
Substance of Interview including description of the generally other comments:	al nature of what was agreed to if	an agreement was reached, or		
The applied reference Blattner et al , applied to claims 5,	9, and 29 was discussed; in view	of the claimed invention		
having been amended to no longer recite a nucleic acid the				
sequence), but now recites at least 25 or 30 sequential n				
withdrawn in view of the arguments set forth in the personal and 25 1100 1011 and 1110 first				
under 35 USC 101, and 112, first paragraph were discus				
Koonin reference (1996) was asserted to define a utility to The examiner upon consideration did not find any discuss				
the instantly claimed invention. Only homology to a puta				
178 . Koonin does not discuss "ymfc" (see additional na				
(A fuller description, if necessary, and a copy of the amerallowable, if available, must be attached. Also, where no available, a summary thereof must be attached.)	ndments which the examiner agree copy of the amendments that wo	ed would render the claims ould render the claims allowable is		
i) It is not necessary for applicant to provide a sep	arate record of the substance of t	he interview (if box is checked).		
Unless the paragraph above has been checked, THE FORI INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See Malready been filed, APPLICANT IS GIVEN ONE MONTH FE SUBSTANCE OF THE INTERVIEW. See Summary of Reco	PEP section 713.04). If a reply to ROM THIS INTERVIEW DATE TO F	the last Office action has ILE A STATEMENT OF THE		
Sofo	A 1/14/03	4/16/03		
Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.	Evaminada	cianatura if required		
an include the district of the district detects.	Examiners	Examiner's signature, if required		

Application/Control Number: 09/252,691 Attachment to Interview Summary

Art Unit: 1645

1. Mr. Spedafora additionally pointed to Del Campo et al (2001) in defining a key role of pseudouridine synthases as essential genes for screening for antimicrobial agents.

Page 2

It is the position of the examiner that while Del Campo et al (October 2001) does discuss "ymfc" of E.coli, (page 1604, col. 2, paragraph 2) it was pointed out that the E.coli open reading frame "ymfc" is in fact "rluE" a pseudouridine synthase; the functionality of the encoded polypeptide having been determined and made public in the publication, the date of the publication being after the filing date of the instant specification. The functionality of the open reading frame encoded polypeptide was not defined until after the filing date of the instant Application.

Additionally it was noted in Del Campo et al, (see page 1605) that deletion of any one of the cited pseudouridine synthase coding sequences did not functionally effect the growth rate of resultant the mutant strain. The reference states "[F]unctional characterization by growth rate measurements did not reveal the need for any of these Ψ when singly deleted." Therefore, Del Campo et al, a reference submitted by Applicant, provides support that any single pseudouridine synthase gene individually does not define a gene that directly effects viability in light of the fact that single knock out mutants were still able to maintain their growth rate, thus providing evidence that any single gene is not an "essential gene" that effects cell growth rate, and indirectly, does not effect overall viability.

Application/Control Number: 09/252,691 Attachment to Interview Summary

Page 3

Art Unit: 1645

- 2. The scope of the claimed invention was discussed relative to the disclosure of the instant Specification, and Mr. Spedafora asserted that the claimed nucleic acids that encode polypeptides have utility in the disclosed screening methods for identifying antimicrobial agents.
- 3. It is the position of the examiner that the instant Specification at page 39, lines 10-13 states "[T]he information allows one of ordinary skill in the art to determine a potential use for each identified coding sequence, as a result, allows to use the polypeptides of the present invention for commercial and industrial purposes" which statement does not define a new useful product as now claimed. The instant specification sets forth an invitation to experiment to determine a real world use for encoded polypeptides, of the E.coli homolog open reading frame, set forth as SEQ ID NO 1394, encoding the amino acids of SEQ ID 7056 obtained from E.cloacae.
- a.Brenner v. Manson, 383 US 519 (1966) conveyed that: The basic quid pro quo contemplated by the Constitution and the Congress for granting a patent monopoly is the benefit derived by the public from an invention was substantial utility. Unless and until a process is refined and developed to this point-- where specific benefit exists in currently available form-there is insufficient justification for permitting an applicant to engross what may prove to be a broad field.
- b. Brenner v Manson also stated "[B]ut a patent is not a hunting licence. It is not a reward for the search, but compensation for its successful conclusion."

Application/Control Number: 09/252,691 Attachment to Interview Summary

Page 4

Art Unit: 1645

The claimed nucleic acid molecules that encode polypeptides of no biological function could not be used to produce any products with a real world utility based upon the disclosure in the instant specification for the instantly elected and claimed invention.

The rejections over the claims under 35 U.S.C. 101, and 112, first paragraph are maintained for reasons of record and responses set forth herein.